

20020807.ba v03\_n380.bam.20020807

>From ???@??? Wed Aug 7 11:33:12 2002 -0500  
Message-Id: <200208071633.g77GX19P003761@sco.theporch.com>  
Date: Wed, 7 Aug 2002 11:31:45 CDT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 3360

BOATANCHORS Digest 3360

Topics covered in this issue include:

- 1) Last two reports  
by Jderm740@aol.com
- 2) Military Radiofest at Ft. Stevens, Oregon  
by David Ross <ross@hypertools.com>
- 3) Re: Helmet radio  
by "Hue Miller" <kargo\_cult@msn.com>
- 4) Re: Helmet radio  
by Mike Feher <n4fs@monmouth.com>
- 5) Re: Helmet radio  
by "Hue Miller" <kargo\_cult@msn.com>
- 6) Re: Helmet radio  
by Mike Feher <n4fs@monmouth.com>
- 7) RE: Berryville, Va. Hamfest  
by "Edward Zeranski" <ezeran@concentric.net>
- 8) REF: FS Harris RF-353 & RF-354 Manuals  
by Dan Arney <hankarn@pacbell.net>
- 9) Mil\_fest\_part  
by "Edward Zeranski" <ezeran@concentric.net>
- 10) Re: Mil\_fest\_part  
by Michael Hanz <AAFRadio@erols.com>
- 11) Re: Helmet radio  
by "Hue Miller" <kargo\_cult@msn.com>
- 12) MRCA Military Radio Meet  
by Al Klase <skywaves@bw.webex.net>
- 13) Re: Pi-wound coils  
by Joe LeKostaj <jm\_lekostaj@attglobal.net>
- 14) Re: Pi-wound coils  
by Arden Allen <gumbear@pacbell.net>
- 15) Re: Pi-wound coils  
by jackiv@juno.com
- 16) Re: Lesson on Meters  
by y4562@comcast.net
- 17) Disc caps  
by Kevin Gallagher <wire2liv@in-tch.com>
- 18) Re: Disc caps

by "Don Davis" <dxguy@earthlink.net>  
19) Re: Lesson on Meters  
by "russ dworakowski" <wb3fau@hotmail.com>  
20) Re: Lesson on Meters  
by "Brian Goldsmith" <brian.goldsmith@echo1.com.au>  
21) Re: Lesson on Meters  
by jackiv@juno.com  
22) Re: Lesson on Meters  
by "russ dworakowski" <wb3fau@hotmail.com>

-----  
From: Jderm740@aol.com  
Message-ID: <d5.1b2c0b97.2a7c354d@aol.com>  
Date: Fri, 2 Aug 2002 15:19:41 EDT  
Subject: Last two reports  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Yesterday and today I received digests 3358 and 3359. As these are old numbers I subtext them with a letter. Checking them out 3358 is a one item post which is alright except I don't know if relates to the original 3358. 3359 is a newsflash which has nothing to do with BSs. It's mostly political reports of items in congress.

What happened?

Jack McDermott KB1IJP

-----  
Message-ID: <3D4AE997.6106B082@hypertools.com>  
Date: Fri, 02 Aug 2002 13:20:39 -0700  
From: David Ross <ross@hypertools.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Military Radiofest at Ft. Stevens, Oregon  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hey folks -

Here's the last reminder about next weekend's Military Radio shindig coming up on Saturday August 10th at Fort Stevens, Oregon. This is in conjunction with the Oregon Military Vehicle Collectors Club campout at Ft. Stevens, which runs from August 8th to the 11th. The OMVCC salmon BBQ is on Saturday the 10th, late in the afternoon.

This is a big annual show for OMVCC, so you'll see a lot of their military vehicles on display. (OMVCC charges non-members for the salmon BBQ, but it's free if you're a member - support OMVCC and buy a one year membership for \$10.)

If possible, bring your own radios & vehicles - the larger they are the better we like it. HF AM gear certainly, HF SSB sure, HF RTTY of course, 51 MCs tactical FM by all means, field 'phones & switchboards fersure, tactical satcomm why not, troposcatter yeah sure you betcha... The Fort has lots of grassy area to set up radios & antennae & telephone gear.

Plans are to have at least two military radioteletype stations set up & operating onsite - we'll have a PRC-47 & MITE setup running on a BB-451 battery plus a TRC-75 & Kleinschmidt TT-4 & TT-76 running from a 3KW genset, and I hope to see at least two other military RTTY stations there. Most of the folks who regularly check into clatternet will be at Ft. Stevens, so we'll still do the regular Saturday morning 850 shift RTTY net on 10137 USB from the Fort.

I'll put one piece of RTTY art on clatternet around 10AM, and the second will go out in the early afternoon. Also, listen for the 1/4 Watt N7EPI 850 shift RTTY beacon on 10130 - it'll be up and running for the entire weekend.

Fort Stevens is right at the mouth of the Columbia River. Currently an Oregon State Park, it provided for coastal defense from the times of confederate raiders up until just after WWII. Lots of concrete work remains from those times, and some artillery is also in evidence. Work progresses on the restoration of one of the WWII vintage 'disappearing carriage' guns.

Also, it's the weekend of the Astoria Regatta, and with a little hustle you can take in both the OMVCC show and the Astoria Yacht Club Ducky Derby on Sunday the 11th... Seriously, the Regatta yacht race is well worth seeing - check it out at:  
<http://www.astoriaregatta.org/astoria.html>

The Oregon MVCC guys put on a good show & a fine salmon BBQ at this event. Last year's event was a booming success with a lot of military radioactivity, and I'm sure this year will see an even larger event and lots more attendees. Campsites are available nearby, and you can camp right on Fort Stevens grounds if you are in uniform and in military tents. Plenty of eateries and diversions in nearby Astoria & Seaside too.

If you need directions, email me at <mailto:ross@hypertools.com>

hope to see y'all there

Dave Ross    N7EPI    [ross@hypertools.com](mailto:ross@hypertools.com)

-----  
From: "Hue Miller" <kargo\_cult@msn.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Helmet radio  
Date: Sat, 3 Aug 2002 01:30:34 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Message-ID: <0E97oV1qdiixjnzi95H0000ffc2@hotmail.com>

In 1960, i think it was, my father took me to Armed Forces Day event at Ft. Gordon, Augusta, Georgia. At one display, an Army guy put the helmet radio on my to let me try it on. It was not powered up. I suppose at the time this was really Buck Rogers, far-out equipment. It was about XXL sizes too large for that boy, and i felt more like it was weird and way too big & heavy. It fit me like a garbage can lid. They should have powered it up, and let the person trying it out, talk to someone over it. That would have really sold us on the Army. About 15 years back, some fellow in PA had a pile of them to sell off, as many as you wanted. This was probably from some estate. So, if a person needed several to happily storage, that would have been the time to store them away.  
Hue Miller

-----  
Date: Sat, 03 Aug 2002 04:04:29 -0400  
From: Mike Feher <n4fs@monmouth.com>  
Subject: Re: Helmet radio  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <000c01c23ac4\$66006c60\$d2775243@n4fs>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

As far as I recall the units sold off in PA about 15 or so years ago were the common PRT/PRR series of helmet radios. Yes, there are a lot of those out there. The PRC-34/36 is much earlier and cruder (being a hybrid), and I do not believe any one had a bunch to sell off as I do not think that many were made. 73 - Mike

Mike B. Feher, N4FS  
89 Arnold Blvd.

Howell NJ, 07731  
(732) 901-9193

----- Original Message -----

From: "Hue Miller" <kargo\_cult@msn.com>  
To: "Old Tube Radios" <boatanchors@theporch.com>  
Sent: Saturday, August 03, 2002 4:30 AM  
Subject: Re: Helmet radio

> In 1960, i think it was, my father took me to Armed Forces Day event  
> at Ft. Gordon, Augusta, Georgia. At one display, an Army guy put  
> the helmet radio on my to let me try it on. It was not powered up. I  
> suppose at the time this was really Buck Rogers, far-out equipment.  
> It was about XXL sizes too large for that boy, and i felt more like  
> it  
> was weird and way too big & heavy. It fit me like a garbage can lid.  
> They should have powered it up, and let the person trying it out,  
> talk  
> to someone over it. That would have really sold us on the Army.  
> About 15 years back, some fellow in PA had a pile of them to sell  
> off, as many as you wanted. This was probably from some estate.  
> So, if a person needed several to happily storage, that would have  
> been the time to store them away.  
> Hue Miller  
>  
>

-----  
From: "Hue Miller" <kargo\_cult@msn.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Helmet radio  
Date: Sat, 3 Aug 2002 02:30:10 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Message-ID: <0E52txTSYf0ueI20wXp00014d81@hotmail.com>

----- Original Message -----

From: Mike Feher <n4fs@monmouth.com>

> As far as I recall the units sold off in PA about 15 or so years  
> ago were  
> the common PRT/PRR series of helmet radios. Yes, there are a lot of  
> those

> out there. The PRC-34/36 is much earlier and cruder (being a hybrid), and I  
> do not believe any one had a bunch to sell off as I do not think that many  
> were made. 73 - Mike

Wrong. They were the helmet radio, the same model as i tried on that sunny Sunday in 1960. I stopped with just two, figured that was enuff. But he had a lot more.  
Hue

-----  
Date: Sat, 03 Aug 2002 04:47:54 -0400  
From: Mike Feher <n4fs@monmouth.com>  
Subject: Re: Helmet radio  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <004d01c23aca\$76617b20\$d2775243@n4fs>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Hue -

So, in your opinion, how many do you think were made, or, more direct to the point, do you feel they were fielded? The units I have, came from 3 different sources. One was from a fellow I used to know that was involved with the project (this also included prototypes), a couple from a ham in FL, and a few, mostly prototypes, from a retired RCA engineer, including drawings. I still feel that not many are out there and that they are pretty scarce. Transistor technology in 1956, the date on most of my blue prints, just was not mature enough to compete yet with tubes. That is not to say they did not try. I think the (X) after the nomenclature denotes an experimental/developmental item, and my manual, as well as Will's both have the (X). 73 - Mike

Mike B. Feher, N4FS  
89 Arnold Blvd.  
Howell NJ, 07731  
(732) 901-9193

> Wrong. They were the helmet radio, the same model as i tried on  
> that sunny Sunday in 1960. I stopped with just two, figured that was  
> enuff. But he had a lot more.  
> Hue

>  
>

-----  
From: "Edward Zeranski" <ezeran@concentric.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Berryville, Va. Hamfest  
Date: Sun, 4 Aug 2002 09:02:17 -0700  
Message-ID: <FHEBKNEBHGNPDPLBMCNEEEFOCFAA.ezeran@concentric.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The Loudoun Amateur Radio Group will be selling military surplus and  
broadcast station  
items at the Berryville Hamfest Aug. 4th. - weather permitting -

The weather cooperated I had a great time! Not the biggest fest but it is a  
friendly one and I picked up some needed parts. BA were present, both Ham  
and Military, East Coast BA friends were there, and this San Diego guy had a  
nice Sunday morning drive through rural VA..a good day all around. Thanks  
for the 'heads up'.

EdZ

-----  
Date: Sun, 04 Aug 2002 13:22:59 -0700  
From: Dan Arney <hankarn@pacbell.net>  
Subject: REF: FS Harris RF-353 & RF-354 Manuals  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <3D4D8D23.4070202@pacbell.net>  
MIME-version: 1.0  
Content-type: text/plain; format=flowed; charset=us-ascii  
Content-transfer-encoding: 7bit

I have Manuals for the Harris RF-353 1 KW LPA and the RF-354 1 KW LPA PS.  
These are comb bound lay flat with vinyl covers printed both sides with  
all fold outs. These are Feb. 1986 # 10087-0705 & 0805 publications.  
\$95.00 for the pair mailed in US/Canada.  
Take Pay Pal or USPS money order.  
Thanks,  
Hank  
KN6DI

-----  
From: "Edward Zeranski" <ezeran@concentric.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Mil\_fest\_part  
Date: Sun, 4 Aug 2002 14:59:50 -0700  
Message-ID: <FHEBKNEBHGNPDPLBMCNEMEGACFAA.ezeran@concentric.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="us-ascii"  
Content-Transfer-Encoding: 7bit

BA Folk,  
    I picked up a Mil antenna current meter, A-61-A, at the Berryville Hamfest.  
It is Signal Corps, 50 watts, 5 ohms, .0001 mfd. What was it used with????

Thanks!

EdZ

-----  
Message-ID: <3D4DA880.20105@erols.com>  
Date: Sun, 04 Aug 2002 18:19:44 -0400  
From: Michael Hanz <AAFRadio@erols.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Mil\_fest\_part  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Edward Zeranski wrote:

> I picked up a Mil antenna current meter, A-61-A, at the Berryville Hamfest.  
> It is Signal Corps, 50 watts, 5 ohms, .0001 mfd. What was it used with????

SCR-274N command transmitter.

73,  
Mike

-----  
From: "Hue Miller" <kargo\_cult@msn.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Helmet radio



Date: Mon, 5 Aug 2002 02:02:57 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Message-ID: <0E40JNc3JPv4uc0K05s00006ab6@hotmail.com>

----- Original Message -----

From: Mike Feher <n4fs@monmouth.com>  
To: <kargo\_cult@msn.com>; Old Tube Radios <boatanchors@theporch.com>  
Sent: Saturday, August 03, 2002 1:47 AM  
Subject: Re: Helmet radio

>  
> Hue -  
>  
> So, in your opinion, how many do you think were made, or, more  
direct to the  
> point, do you feel they were fielded?

I agree with you they were never fielded, except for trial purposes.  
Any number  
i put on production would be an WAG, i would guess it would not be  
more than  
100 at most, and maybe quite a bit less. What would you think?  
In 1960, that was pretty far-out gear. Probably the GI who put that  
one on my head  
at the military exhibition thought he really had something. He should  
have told  
me it was a radio - since it wasn't turned on, i didn't have a clue  
what it was  
supposed to do, and nobody really told me.  
Hue

-----  
Message-ID: <3D4EA54F.C58A45CE@bw.webex.net>  
Date: Mon, 05 Aug 2002 12:18:23 -0400  
From: Al Klase <skywaves@bw.webex.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: MRCA Military Radio Meet  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Here's an announcement from event organizer Steve Finelli:

Hi All,

Just a reminder that the MRCA (Military Radio Collectors Association) will be holding their second annual Military Radio Meet on September 6 - 8 (Fri., Sat., Sun.) at the West End Fairgrounds, Gilbert, Pa. The meet is held in conjunction with the Red Ball Military Transport Annual Fall Rally & Swap Meet. This is a very large Military Vehicle Show & they have their own flea market (currently over 210 vending spaces sold) which includes all types of WWII vehicle surplus parts & just about anything else related, including radio equipment.

This is the first time for this show to take place at the West End Fairgrounds. This new location is actually much better & larger than where it was previously held at the Tobyhanna Army Depot. We now have our own building approx. 40' x 70' for displays, demonstrations & talks. In addition, we have a grove area that will provide participants who wish to set up operating stations with plenty of trees for antennas & several of these trees have 120v outlets that we can utilize.

Please check out our website: [www.milradio.org](http://www.milradio.org) for complete details such as show schedule, maps, registration forms, etc. Pre-registration is not a must but would be appreciated as this will help us better plan for our meet.

Hope to see you at the meet!

Best Regards,  
Steve Finelli N3NNG  
[navrad@enter.net](mailto:navrad@enter.net)

-----  
Mime-Version: 1.0  
Message-Id: <p0432040ab9748d9dd790@[12.64.66.53]>  
Date: Mon, 5 Aug 2002 16:26:34 -0500  
To: Old Tube Radios <[boatanchors@theporch.com](mailto:boatanchors@theporch.com)>  
From: Joe LeKostaj <[jm\\_lekostaj@attglobal.net](mailto:jm_lekostaj@attglobal.net)>

Subject: Re: Pi-wound coils  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Hi Arden & all.

This is in follow-up to my recent posts about needing to repair a pi/pie wound transformer winding in an Eddystone 830/4. There is good news to report.

Before unwinding the existing damaged coil, I measured the distance between the primary and secondary windings and also the height of the "pie". My goal would be to duplicate these dimensions as closely as possible. Then I unwound the damaged winding and counted the turns. The wire diameter was mike'd and found to be 0.005 inch, or 36 AWG. Very fine wire!

I obtained some new magnet wire, Q-dope, and fiber washers with I.D. equal to the O.D. of the coil form. Two fiber washers were press-fit onto the form such that the new winding would be in the exact location of the original. A bit of Q-dope held the washers in place.

I attempted to "pi-wind" the wire onto the form by hand, but it was futile. The alternative was to scramble-wind. The two fiber washers performed nicely as "bookends" as the new coil was scramble-wound between them. A little Q-dope on the winding finished the job.

This repair procedure was performed on 2 damaged coils. The results are very good. The coils were re-installed and the receiver was re-aligned with no problems. It is now hearing well on all bands! This was the last major repair needed on this project. Soon the 830/4 will be back in service, cruising the SWBC and ham bands and heating the shack on cold winter nights.

73,  
Joe K9LY

-----  
Date: Mon, 05 Aug 2002 14:39:43 -0700  
From: Arden Allen <gumbear@pacbell.net>  
Subject: Re: Pi-wound coils  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <0H0E00MFB45CYM@mta5.snfc21.pbi.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=ISO-8859-1  
Content-transfer-encoding: 7bit

Bravo, Joe. I hadn't thought about using fiber washer bookends before but

it is a brilliant solution. Thanks for carrying through on this project, a lesson for us all.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

> This is in follow-up to my recent posts about needing to repair a  
> pi/pie wound transformer winding in an Eddystone 830/4. There is good  
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>  
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> location of the original. A bit of Q-dope held the washers in place.  
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> will be back in service, cruising the SWBC and ham bands and heating  
> the shack on cold winter nights.  
>  
> 73,  
> Joe K9LY

-----  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: boatanchors@theporch.com  
Date: Mon, 5 Aug 2002 16:53:51 -0500  
Subject: Re: Pi-wound coils  
Message-ID: <20020805.165351.2332.5.jackiv@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
From: jackiv@juno.com

CONGRATULATIONS. You had encountered the "green death" caused by an

acidic wax. Philco had this problem years ago  
the only solution was a rewind such as you have done, most of those were  
single layer, not pi wound.  
Old Jack

On Mon, 05 Aug 2002 14:39:43 -0700 Arden Allen <gumbear@pacbell.net>  
writes:

> Bravo, Joe. I hadn't thought about using fiber washer bookends  
> before but  
> it is a brilliant solution. Thanks for carrying through on this  
> project, a  
> lesson for us all.  
>  
> Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net  
>  
> > This is in follow-up to my recent posts about needing to repair a  
>  
> > pi/pie wound transformer winding in an Eddystone 830/4. There is  
> good  
> > news to report.

snip

-----  
Date: Mon, 05 Aug 2002 20:39:28 -0400  
From: y4562@comcast.net  
Subject: Re: Lesson on Meters  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: boatanchors@theporch.com  
Message-id: <001801c23ce1\$b8cdd300\$74232f44@martnz01.ga.comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

I have read several of the posts on the lesson on meters and I have a  
situation that could use an explanation. I am restoring a piece of vintage  
military test equipment that had a burnt out 50 microamp Phastron meter  
calibrated in volts and milliamperes. I found a new surplus Phastron meter  
of the same configuration except it had a meter face calibrated in decibels  
of noise figure. I confirmed that the full scale reading at 50  
microamperes. I replaced the meter face with the one from the original  
meter. My problem appears that the readings are not linear. in otherwords  
the readings appears low but not proportionally low across the entire scale.  
If the readings were linear I could have adjusted the series resistance to  
put the full scale voltage reading on the money. Would this be a meter  
designed for non-linear readings in decibels?

Anyone have a good explanation for this?

Thanks, Larry

-----  
Message-ID: <3D4FE7BA.30BEC396@in-tch.com>  
Date: Tue, 06 Aug 2002 09:14:02 -0600  
From: Kevin Gallagher <wire2liv@in-tch.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Disc caps  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gents, I am in need of a pair of capacitor discs of the type that were found on tuned lines of a PA. They would need to have threaded studs on each disc. If you have a set or know where one could come up with a set, please let me know. Thanks, Kevin kd7hew ( I saw a set on the e place about a month ago but didn't need them then!!)

-----  
Message-ID: <017701c23da9\$452dec00\$bddeb3d1@hppav>  
From: "Don Davis" <dxguy@earthlink.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Disc caps  
Date: Tue, 6 Aug 2002 17:27:52 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

What is the voltage rating, capacitance, and physical size / mounting?

AD6PB

----- Original Message -----  
From: "Kevin Gallagher" <wire2liv@in-tch.com>  
To: "Old Tube Radios" <boatanchors@theporch.com>  
Sent: Tuesday, August 06, 2002 8:14 AM  
Subject: Disc caps

> Gents, I am in need of a pair of capacitor discs of the type that were  
> found on tuned lines of a PA. They would need to have threaded studs on  
> each disc. If you have a set or know where one could come up with a set,  
> please let me know. Thanks, Kevin kd7hew ( I saw a set on the e place  
> about a month ago but didn't need them then!!)  
>

>

-----  
From: "russ dworakowski" <wb3fau@hotmail.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Lesson on Meters  
Date: Wed, 07 Aug 2002 02:09:46 -0400  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed  
Message-ID: <LAW2-F64gm39NlHJcNP00008432@hotmail.com>

Sorry, this is typical of a D'arsonval meter movement. For example, look at the scales on a Simpson 260 multimeter. You can see the non-linearity as it is calibrated as such. They know it is non linear, so it is calibrated for the error, still quite accurate for analog readout. Why the nonlinearity exists I do not know. But we do know it is there. For best results, if possible, use the readings in the upper 1/3 of the scale for best accuracy.  
Russ.

>From: y4562@comcast.net  
>Reply-To: y4562@comcast.net  
>To: Old Tube Radios <boatanchors@theporch.com>  
>CC: boatanchors@theporch.com  
>Subject: Re: Lesson on Meters  
>Date: Mon, 05 Aug 2002 20:39:28 -0400

>

>I have read several of the posts on the lesson on meters and I have a  
>situation that could use an explanation. I am restoring a piece of vintage  
>military test equipment that had a burnt out 50 microamp Phastron meter  
>calibrated in volts and milliamperes. I found a new surplus Phastron meter  
>of the same configuration except it had a meter face calibrated in decibels  
>of noise figure. I confirmed that the full scale reading at 50  
>microamperes. I replaced the meter face with the one from the original  
>meter. My problem appears that the readings are not linear. in otherwords  
>the readings appears low but not proportionally low across the entire  
>scale.

>If the readings were linear I could have adjusted the series resistance to  
>put the full scale voltage reading on the money. Would this be a meter  
>designed for non-linear readings in decibels?

>

>Anyone have a good explanation for this?

>

>Thanks, Larry

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Message-ID: <000901c23de6\$46200070\$890f8490@server>  
From: "Brian Goldsmith" <brian.goldsmith@echo1.com.au>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Lesson on Meters  
Date: Wed, 7 Aug 2002 17:44:28 +1000  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

"russ dworakowski" wrote:-

Sorry, this is typical of a D'arsonval meter movement

\*\*\*\*\*Sorry Russ, this statement is simply not correct. A D'arsonval movement is a moving coil type of meter. These movements have a linear scale with respect to coil current, look at any DC Ammeter or Voltmeter. Non linearity is usually associated with the use of rectifiers to enable a DC D'arsonval movement to be used on AC.

Brian Goldsmith.

-----  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: boatanchors@theporch.com  
Date: Wed, 7 Aug 2002 07:02:55 -0500  
Subject: Re: Lesson on Meters  
Message-ID: <20020807.071941.1976.2.jackiv@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
From: jackiv@juno.com

More on "meter" linearity-

H-P used an automated meter scale printer for meters used in many of the 4xx series devices. If you look at many of the vtvm's and others in the line a careful examination will show uneven scale graduations. An engineer on one of the projects in Colorado Springs said that they wanted to have an analog read out that was accurate at more than just a few points on the scale.

He commented that slight distortions in the magnetic flux at the pole pieces was the cause. sorry for the long winded thing..



old jack jackiv@juno.com  
On Wed, 7 Aug 2002 17:44:28 +1000 "Brian Goldsmith"  
<brian.goldsmith@echo1.com.au> writes:  
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> linearity is usually associated with the use of rectifiers to enable  
> a DC  
> D'arsonval movement to be used on AC.  
> Brian Goldsmith.  
>  
>  
>

-----  
From: "russ dworakowski" <wb3fau@hotmail.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Lesson on Meters  
Date: Wed, 07 Aug 2002 12:31:21 -0400  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed  
Message-ID: <LAW2-F50CcdAPi3BWZV00009f92@hotmail.com>

OK Brian, but what about the ohms scale? Its definitely non-linear.

>From: "Brian Goldsmith" <brian.goldsmith@echo1.com.au>  
>Reply-To: "Brian Goldsmith" <brian.goldsmith@echo1.com.au>  
>To: <wb3fau@hotmail.com>, "Old Tube Radios" <boatanchors@theporch.com>  
>Subject: Re: Lesson on Meters  
>Date: Wed, 7 Aug 2002 17:44:28 +1000  
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> Brian Goldsmith.

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Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

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End of BOATANCHORS Digest 3360  
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